
FAYETTE COUNTY

(Fayette County Water Service Area Map)

- Estimated 1999 population of 230,300--99.7% on public water
- Estimated 2020 population of 238,300--100% on public water
- 300 miles of water lines, with plans for 33 additional miles
- Estimated funding needs for public water 2000-2005--private system
- Estimated funding needs for public water 2006-2020--private system

Fayette County had an estimated population of 230,319 (101,079 households) in 1999 with a projected population of 238,316 (110,871 households) in 2020. Public water is provided to nearly 100 percent of the county's residents. Of the few residents of county not served by public water, about 5 of 8 households rely on private domestic wells and 3 of 8 households rely on other sources. About 160 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
FAYETTE								-
Kentucky-American	25.8	110	Private system					
TOTAL	25.8	110						

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
FAYETTE								-
Kentucky American	7.4	52	Private system					-
TOTAL	7.4	52						

PUBLIC WATER SYSTEMS

Fayette county has 2 community water systems: 1 investor-owned, Kentucky-American Water Company; and 1 federal system. Part of southern Fayette County is also served by the Spears Water Company, Inc.

WATER SERVICE AREAS

FAYETTE COUNTY

Kentucky

Prepared By:
Water Resource Development Commission

Department for Local Government
1024 Capital Center Drive, Suite 340
Frankfort, Kentucky 40601-8204
502-573-2382 -- 502-573-2939 fax
<http://dlgnt1.state.ky.us/wrdc/>

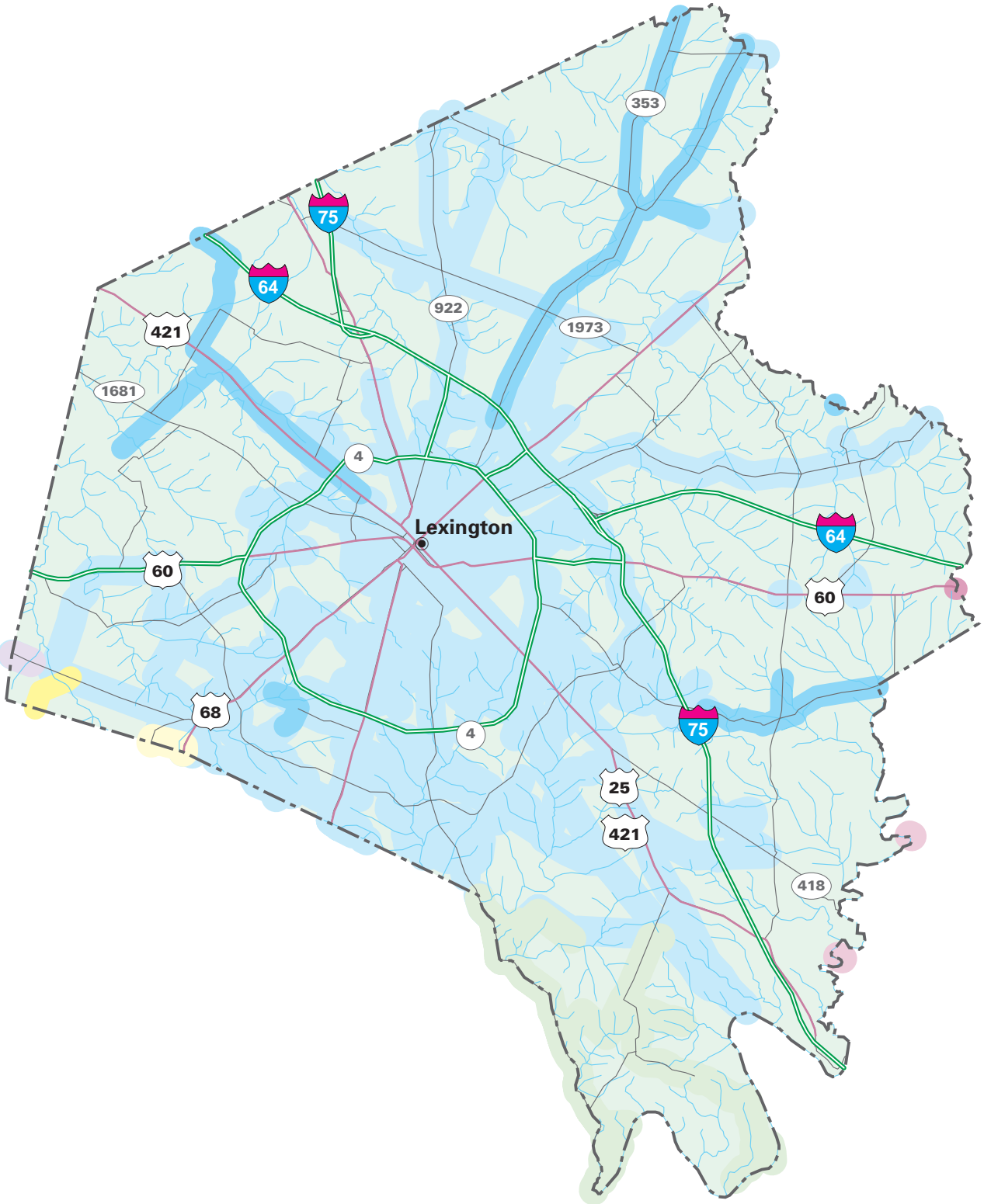
Bob Arnold, Chairman
Lawrence Wetherby, Executive Director

Final GIS & Cartographic Operations By:
Kent Anness & Kim Prough

Data Collection & GIS Input By:
Kentucky Area Development Districts



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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		SPEARS WATER COMPANY INCORPORATED
		SOUTH WOODFORD COUNTY WATER DISTRICT
		SOUTH ELKHORN WATER DISTRICT
		KENTUCKY-AMERICAN WATER COMPANY
		BOONESBORO WATER ASSOCIATION/KY AMERICAN

KENTUCKY-AMERICAN WATER COMPANY

PWSID: 0340250
System Type: COMMUNITY
Owner Type: INVESTOR-OWNED UTILITY
Surface Source: KENTUCKY RIVER POOL 9
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 25.00
Percent Daily Average Production: 80.00
Total Tank Storage Capacity (gallons): 1,000,000.00
Total Service Connections: 0.00
Number of Employees: 0.00
Treatment Operator Class: 4D
Distribution Operator Class: 4A
Customer Rate for 1,000 Gallons: 3.26
O/M costs 1997: 14,598,519.00
O/M costs per Service Connection: 162.80
Net Revenue 1997: 6,046,579.00
Total Water Produced 1997 (gallons): 14,418,949,000.00
Water Sold 1997 (gallons): 12,271,173,000.00
Unaccounted-for Water 1997 (%): 13.38

OTHER SYSTEMS

BLUE GRASS STATION

Blue Grass Station is located in Fayette County. The system serves a population of 800 and has 28 service connections. The federal, community system has storage capacity of 14,902,000 gallons. The water purchased from Kentucky–American Water Company.

PRIVATE DOMESTIC SYSTEMS

About 5,000 residents of Fayette County rely on private domestic water supplies: 3,000 on wells and 2,000 on other sources.

In the North and South Fork of Elkhorn Creeks, Hickman Creek and Boone Creek and their major tributaries, most drilled wells in the valleys will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the creek valleys and the uplands of the northern and western two-thirds of the county and in the upper reaches of the creek valleys in the eastern third will produce enough water for a domestic supply except during dry weather. In the upland areas of the eastern third of Fayette County, which encompasses only 10% of the county, most drilled wells will not produce enough water for a

dependable domestic supply except along drainage lines which may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.
